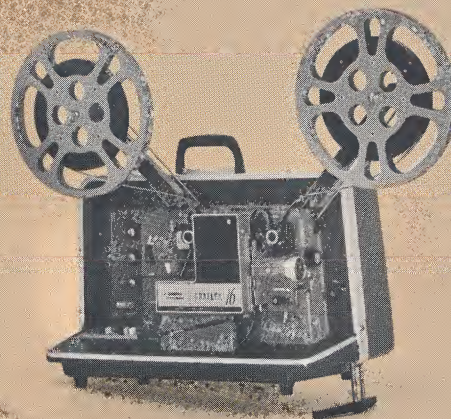


graflex®

16

800 series projectors



easy on the eyes . . . and the ears . . . here, in today's handsomest 16mm sound projectors, the Graflex 800 Series brings you true high fidelity performance in **both** sound and picture. The powerful tube-type amplifier gives you life-like sound at the screen . . . produces a flat response from 50-15,000 cycles per second. Good reasons why audiences—young and old—like sound motion pictures shown by the Graflex 16 projector.

fumble-free loading . . . loading is fast and easy . . . easy to unload too, even in the middle of a reel.

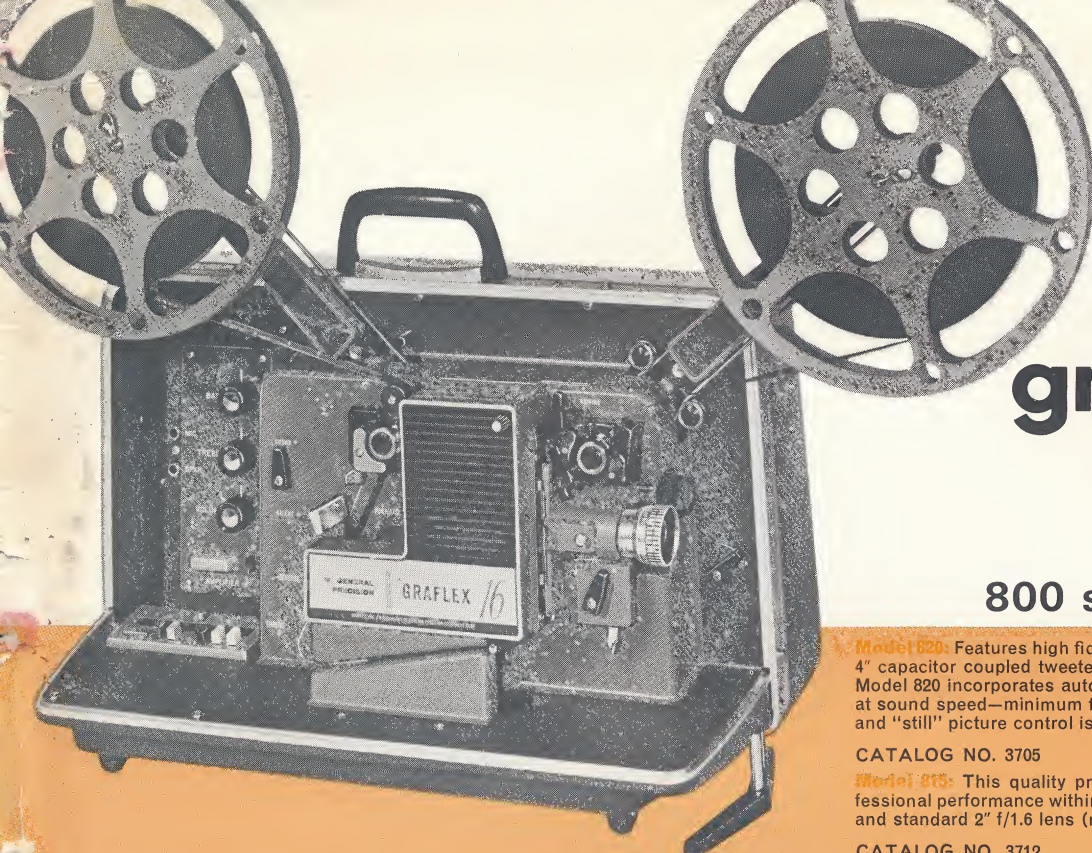
sync in seconds . . . automatic sound loading . . . completely ends soundhead threading problems.

sound that's clean, clear, and crisp . . . from Graflex 16 projector's exclusive phototransistor sound pickup to its balanced speaker systems, you get total sound performance that pleases every audience.

easy on the projectionist . . . and the budget . . . projectionists like the Graflex 16 projector, too. Even inexperienced operators load it easily and quickly. Automatic slip-in soundhead loading puts an end to soundhead threading problems. Gives perfect sync between sound and picture, always. And with the Graflex-exclusive long-life lamp, there are fewer lamp changes, fewer program interruptions. And **much** lower lamp costs.

an end to bad film problems . . . green or dry film, poor leaders, bad splices, sharp bends and worn sprocket holes don't bother a Graflex 16 projector (our exclusive adjustable film gate pressure runs films smoother and quieter, too).

performance that pays its own way . . . new Hi-Life lamp increases lamp life up to 10 times . . . now lamp savings alone may pay for the projector.



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Optical Sound Pickup: Photo transistor and optics factory-adjusted and sealed for lifetime trouble-free performance. Exciter lamp easily replaced.

Microphone-Phono Input: Standard phone jack—automatically cuts out sound-head pickup.

Speaker Output: Standard phone jack—will operate with 4 to 16 ohm speaker systems.

Reel Arms: Top mounted, permanently attached, 2000' capacity, fold for storage. Reels do not hang below projector base.

Power Cord: Permanently attached. 9' heavy duty, 3-wire, rubber covered, with molded fittings.

Elevation Controls: Fast acting, counterbalanced, with positive lock.

Lubrication: All high speed shafts permanently lubricated.

Case: Durable, moulded, fiber glass reinforced, single unit with lift-off side cover, nickel fastenings, form-fitting carrying handle.

Dimensions: Length 20", Height 14", Depth 11".

Weight: 42 lbs.

Power Requirements: 4.5 amps, 105-125 volts, 60 cycle AC only.

Still Projection: Model 820 only. Single button stops film for still projection.

Automatic 2-3 Blade Shutter: Models 820 only. Makes possible extra screen brightness at sound speed (using 2 blades); minimum flicker at silent speed (using 3 blades). May be locked in 3-blade position to control screen brightness and eliminates flicker at short projection distances on sound speed.

Projection Lens: On Graflex Model 820: 2" f/1.6 Field Flatteners for maximum corner-to-corner sharpness. On Graflex Model 815: 2" f/1.6 standard lens. All models accept anamorphic and zoom lenses.

ACCESSORIES

12" Accessory Speaker: A high quality 12" permanent-magnet speaker, capacitor-coupled with "twin" 4 inch tweeters baffle-mounted in properly designed case for optimum acoustic balance. Impedance-matched to output of projector's amplifier. Attractive styling complements projector case.

CATALOG NO. 3723

Speaker Extension Cable: Allows an additional 50' separation between projector and accessory speaker. Complete with fittings.

CATALOG NO. 3646

Slip Cover: Heavy-duty vinyl with zipper pocket for take-up reel and other accessories.

CATALOG NO. 3739

Aperture Cleaning Brush: Long lasting white nylon

CATALOG NO. 3694

Graflex Instrument Oil: Precision instrument oil, non-gumming, self cleaning. Meets Military Specifications.

CATALOG NO. 3741

Model 820: Features high fidelity sound produced at the screen by 8" woofer and 4" capacitor coupled tweeter speaker system installed in the lift-off side cover. Model 820 incorporates automatic 2-3 blade shutter for extra screen brightness at sound speed—minimum flicker at silent speed. A 2" f/1.6 Field Flatteners lens, and "still" picture control is standard equipment.

CATALOG NO. 3705

Model 815: This quality projector provides economy for those requiring professional performance within a strict budget. Incorporates a fixed 3-blade shutter and standard 2" f/1.6 lens (no "still" control).

CATALOG NO. 3712

800 Series Amplifier: 15 watt RMS (30 watt peak music power)—Frequency response 50-15,000 CPS. Convenient plug-in heavy-duty circuit board. Transformer powered.

Film Speed: Sound: 24 frames per second
Silent: 18 frames per second

Loading: Film drops in slot over soundhead; master control lever forms film around soundhead and sets a perfect loop automatically.

Sound Loop Resetting: Finger-tip control resets lost loop without stopping projector.

Framing: Optical Framing Control does not change screen position of projected image or allow "creep" during operation.

Film Transport: Hardened carbide pull-down tooth; hard chrome plated guides.

Film Gate: Long wearing pressure shoe holds film firmly yet gently. Slides out for easy cleaning. **Exclusive** external control permits instant adjustment of gate pressure for quietest running of every film.

Rewind: Power-operated; no reel or belt change.

Reverse Operation: Single lever controls reverse operation without stopping projector.

Multi-Tap Lamp Transformer: Provides correct lamp voltages for "Norm," and "Hi" settings. Adjustable to compensate for local voltage fluctuations extending lamp life in "high voltage" areas.

Screen Brightness Control:

	2-Blade Shutter	3-Blade Shutter
"Hi"	580 lumens	460 lumens
"Norm"	335 lumens	260 lumens
"Still"	140 lumens ("Hi")	75 lumens ("Norm")

Lamp Life: "Norm," 100 hours minimum; "Hi," 10 hours with DLR lamp, 25 hours with DKM.

Cooling: Ducted airflow with separate fan-motor for quiet operation. Blower starts automatically when any push button except red "Off" is operated.

Controls:

- Push buttons control starting, stopping, lamp brightness, and off. Master control lever forms film around soundhead, sets loop, controls forward and reverse operation.
- Neon indicator lamp illuminates push buttons, volume and tone controls. Separate lamp lights loading area.
- Projector speed regulated by single control.
- Finger tip touch engages rewind control.
- Framing knob and manual advance knob are easily accessible.
- Push button reset for circuit breaker.

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